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DELTA **SANDER**

GB **DELTA SANDER**
IE Operating and safety instructions
CY

GB Before you begin reading this information, please unfold the page with the illustrations
IE and familiarize yourself with all functions of the tool.
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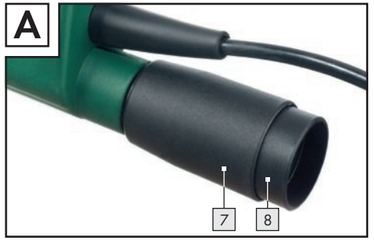
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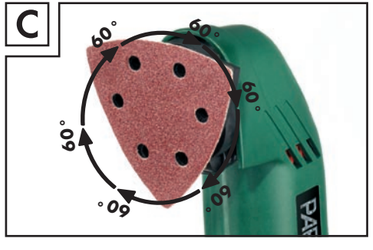
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The following icons / symbols are used in this instruction manual:			
	Read instruction manual!		Safety class II
	Observe caution and safety notes!		Wear hearing protection, dust protection mask, protective glasses and protective gloves.
	Caution – electric shock! Dangerous electric current – danger to life!		Keep children and other unauthorised personnel at a safe distance when using electrical tools.
	Explosive material!		Keep the device away from rain or moisture. Water entering an electrical device increases the risk of electric shock.
V~	Voltage		Damaged appliances, power cables and power plugs mean potentially fatal risks from electric shock. Regularly check the condition of the appliance, the power cables and the power plugs.
W	Watts (Effective power)		Dispose packaging and appliance in an environmentally-friendly way!

Delta sander PDS 260

Introduction

Please make sure you familiarise yourself fully with the way the device works before you use it for the first time and that you understand how to handle electrical power tools correctly. To help you do this please read the accompanying operating instructions. Keep these instructions in a safe place. If you pass the device on to anyone else, please ensure that you also pass on all the documentation.

Proper use

The device is intended for dry sanding and polishing of wood, plastic, metal, filler and painted surfaces. The device is particularly suitable for corners, profiles or difficult to access places. Any other use or modification to the device shall be considered as improper use and could give rise to considerable dangers. We will not accept liability for loss or damage arising from improper use.
Not suitable for commercial use.

Features and equipment

1 ON / OFF switch
2 Oscillation speed setting wheel
3 Mains lead
4 Dust extraction spout
5 Ventilation openings
6 Backing plate (360° rotatable)
7 Adapter for external vacuum extraction
8 Reducer piece

Included items

1 Delta sander PDS 260
1 Sanding sheet
1 Adapter for external vacuum extraction
1 Reducer piece
1 Operating instructions
1 Booklet covering “Warranty and service”

Technical information

Nom. power input:	260 W
Rated voltage:	230 V ~ 50 Hz
Nominal speed:	n_0 6,000 - 11,000 min^{-1}
Nom. oscillation speed:	n_0 12,000 - 22,000 min^{-1}
Backing plate:	360° rotatable
Protection class:	II / ⧈

Noise and vibration data:
Values determined in accordance with EN 60745. The sound pressure level (A-weighted) of the device is typically 71,4 dB(A). Uncertainty K=3 dB. The sound level while working can exceed 85 dB (A).

Wear ear protection!

Evaluated acceleration, typical:
Hand / arm vibration a_h = 2,309 m / s^2
Uncertainty K = 1,5 m / s^2

WARNING! The vibration level given in these instructions has been measured in accordance with a standardised measurement procedure specified in EN 60745 and can be used to compare devices.
Different uses of the device give rise to different vibration levels and in many cases they may exceed the values given in these instructions. It is easy to underestimate the vibration load if the electrical power tool is used regularly in particular circumstances.

Note: If you wish to make an accurate assessment of the vibration loads experienced during a particular period of working, you should also take into account the intervening periods of time when the device is switched off or is running but is not actually in use. This can result in a much lower vibration load over the whole of the period of working.

General safety advice

WARNING! Read all the safety advice and instructions! Failure to observe the safety advice and instructions may result in electric shock, fire and / or serious injury.

KEEP ALL THE SAFETY ADVICE AND INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE!

1. Workplace safety

a) **Keep your working area clean and clutter-free.** Untidy or poorly lit working areas can lead to accidents.

b) **Do not work with the device in potentially explosive environments in which there are inflammable liquids, gases or dusts.** Electrical power tools create sparks, which can ignite dusts or fumes.

c) **Keep children and other people away while you are operating the electrical tool.** Distractions can cause you to lose control of the device.

2. Electrical safety

To avoid danger to life from electric shock:

a) **The mains plug on the device must match the mains socket. The plug must not be modified in any way. Do not use an adapter plug with devices fitted with a protective earth.** Unmodified plugs and matching sockets reduce the risk of electric shock.

b) **Avoid touching earthed surfaces such as pipes, radiators, ovens and refrigerators with any part of your body.** There is an increased risk of electric shock if your body is earthed.

c) **Keep the device away from rain or moisture.** Water entering an electrical device increases the risk of electric shock.

d) **Do not use the mains lead for any purpose for which it was not intended, e.g. to carry the device, to hang up the device or to pull the mains plug out of the mains socket. Keep the mains lead away from heat, oil, sharp edges or moving parts of the device.** Damaged or tangled mains leads increase the risk of electric shock.

e) **When working outdoors with an electrical power tool always use extension cables that are also approved for use outdoors.** The use of an extension cable suitable for outdoor use reduces the risk of electric shock.

f) **Use a residual current device (RCD) for protection if operating the electrical power tool in a moist environment is unavoidable.** The use of an RCD reduces the risk of electric shock.

3. Personal safety

a) **Remain alert at all times, watch what you are doing and always proceed with caution. Do not use the device if you are tired or under the influence of drugs, alcohol or medication.** One moment of carelessness when using the device can lead to serious injury.

b) **Wear personal protective equipment and always wear safety glasses.** The wearing of personal protective equipment such as dust masks, non-slip safety shoes, safety helmets or ear protectors, appropriate to the type of electrical power tool used and work undertaken, reduces the risk of injury.

c) **Avoid unintentional operation of the device. Check that the electrical power tool is switched off before you connect it to the mains, pick it up or carry it.** Accidents can happen if you carry the device with your finger on the ON/OFF switch or with the device switched on.

d) **Remove any setting tools or spanners before you switch the device on.** A tool or spanner left attached to a rotating part of a device can lead to injury.

e) **Avoid placing your body in an unnatural position.** Keep proper footing and balance at all times. By doing this you will be in a better position to control the device in unforeseen circumstances.

f) **Wear suitable clothing. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves clear of moving parts.** Loose clothing, jewellery or long hair can become trapped in moving parts.

g) **If vacuum dust extraction and collection devices are fitted do not forget to check that they are properly connected and correctly used.** The use of these devices reduces the hazard presented by dust.

4. Careful handling and use of electrical power tools

a) **Do not overload the device. Always use an electrical power tool that is intended for the task you are undertaking.** By using the right electrical power tool for the job you will work more safely and achieve a better result.

b) **Do not use an electrical power tool if its switch is defective.** An electrical power tool that can no longer be switched on and off is dangerous and must be repaired.

c) **Pull the mains plug out of the socket before you make any adjustments to the device, change accessories or when the device is put away.** This precaution is intended to prevent you from unintentionally starting the device.

d) **When not in use always ensure that electrical power tools are kept out of reach of children. Do not let anyone use the device if he or she is not familiar with it or has not read the instructions and advice.** Electrical power tools are dangerous when they are used by inexperienced people.

e) **Look after the device carefully. Check that moving parts are working properly and move freely. Check for any parts that are broken or damaged enough to detrimentally affect the functioning of the device. Have damaged parts repaired before you use the device.** Many accidents have their origins in poorly maintained electrical power tools.

f) **Use the electrical power tool, accessories, inserted tools etc. in accordance with these instructions and advice, and the stipulations drawn up for this particular type of device. In doing this, take into account the working conditions and the task in hand.** The use of electrical power tools for purposes other than those intended can lead to dangerous situations.

Safety advice relating specifically to this device

- Securely support the workpiece. Use clamps or a vice to grip the workpiece firmly. This is much safer than holding it in your hand.
- Never support yourself by placing your hands near or in front of the device or the workpiece surface. A slip can result in injury.
- If a dangerous situation arises, pull the mains plug immediately out of the mains socket.
- Always work with the mains lead leading away from the rear of the device.
- **DANGER OF FIRE FROM FLYING SPARKS!** Abrading metal creates flying sparks. For this reason, always make sure that nobody is placed in any danger and that there are no inflammable materials near the working area.
- **⚠ WARNING! NOXIOUS FUMES!** Any harmful / noxious dusts generated from sanding represent a risk to the health of the person operating the device and to anyone near the work area.

  Wear protective glasses and a dust mask!
- When sanding wood and in particular when working on materials that give rise to dusts that are hazardous to health, the sander must be connected to a suitable external dust extraction device.
- Ensure that there is adequate ventilation when working on plastic, paint, varnish etc.
- Do not soak the materials or the surface you are about to work on with liquids containing solvents.
- Do not abrade moistened materials or damp surfaces.
- Avoid sanding paints containing lead or other substances hazardous to health.
- Do not work on materials containing asbestos. Asbestos is a known carcinogen.
- Avoid contact with the moving sanding sheet.
- Operate the device only with an attached sanding sheet.
- Never use the device for a purpose for which it was not intended nor with non-original parts / accessories. The use of tools or accessories other than those recommended in the operating instructions could lead to you suffering an injury.
- Switch the device off and allow it to come to a standstill before you put it down.
- Always keep the device clean, dry and free of oil or grease.

Have you understood everything?

- Once you have made yourself familiar with the instructions and advice, the functioning and handling of your device, you are finally in a position to start work. Observing the manufacturer's instructions and advice will maximise your safety while working with the device.

Preparing for use

Take note of the mains voltage. The mains voltage at the mains socket must match that shown on the rating plate on the device. Devices marked with 230 V can also be operated at 220 V.
⚠ **CAUTION!** Make sure that the device is switched off before you connect it to the mains supply.
Note: Always switch on the delta sander before bringing it into contact with the workpiece material.

Switching on the device:
- Move the ON / OFF switch 1 forwards into setting "I".

Switching off the device:
- Move the ON / OFF switch 1 backwards into setting "0".

Selecting the oscillation speed:
You can preselect the oscillation speed you require using the oscillation speed setting wheel 2. You can also change the speed whilst you are working. The way to determine the optimum oscillation speed for your task is to carry out a practical test.
Setting 1 = lowest oscillation speed /
Setting max. = highest oscillation speed

Vacuum dust extraction

⚠ **WARNING! DANGER OF FIRE!** There is the danger of fire when working with electrical devices that have a dust box or can be connected to a vacuum cleaner. Under certain conditions the wood dust in the dust extraction bag (or in the vacuum's dust bag) may ignite, e.g. as a result of flying sparks generated when abrading metals or metal objects left in wood. This can happen particularly if the wood dust is mixed with paint residue or other chemicals and the abraded particles are hot from prolonged abrasion. Therefore you must empty the device's dust collection box and the vacuum cleaner's dust bag before taking a break or stopping work and always avoid overheating of the abraded particles and the device.

Wear a dust mask!

⚠ **WARNING!** Always pull the mains plug is out of the socket before doing any work on the device.

Adapter for external vacuum extraction (with reducer piece)

Connection:
- Push the adapter for external vacuum extraction 7 into the dust extraction spout 4. When doing this observe the guide markings on the device and adapter. Turn the dust extraction spout to lock in place.
- If it is necessary to use the reducer piece 8, push the reducer piece into the adapter for external vacuum extraction 7.
- Push the hose of a suitable dust extraction device approved for that purpose (e.g. a workshop vacuum cleaner) on to the adapter for external vacuum extraction 7 or the reducer piece 8.

Removal:
- Pull the hose of the dust extraction device off the adapter for external vacuum extraction 7.
- Pull off the adapter for external vacuum extraction 7 (with the reducer piece 8 if used).

Attaching / detaching sanding sheets

WARNING! Always pull the mains plug is out of the socket before doing any work on the device.

Attaching:

- Sanding sheets are attached to the backing plate 6 by means of the hook and pile fastening.

Detaching:

- Simply pull the sanding sheet off the backing plate 6 (see Fig. B).

Turn the backing plate in 60° steps

WARNING! Always pull the mains plug out of the socket before doing any work on the device.

- Turn the backing plate 6 of the delta sander in 60° steps until it engages in the desired position (see Fig. C).

Sanding and surfaces:

The shape of the delta sander allows you to sand workpieces even in their difficult to access places, corners and edges (see Fig. D).

Sanding performance and surface quality depend on the grade of sanding sheet and the oscillation speed setting.

- Always use sanding sheets with grades that are suitable for the particular surface you are sanding. The speed selected should also be appropriate to the task undertaken.

Advice on use

- Switch the device on before placing it against the workpiece.
- Apply light sanding pressure only.
- Advance the device at an even rate.
- Change sanding sheets at the appropriate time.
- Do not work on different types of material using the same sanding sheet (e.g. wood and then metal). To achieve the best sanding results you should use unworn, undamaged sanding sheets.
- Clean the sanding sheet from time to time with a vacuum cleaner.

Maintenance and cleaning

WARNING! Always pull the mains plug out of the socket before doing any work on the device.

The delta sander is maintenance-free.

- Clean the device frequently. This should be done immediately after you have finished using it.
- For cleaning the housing use a dry cloth only.
- Remove any adhering sanding dust with a narrow paint brush.
- Never any kind of sharp object or petrol, solvents or cleaning agents that might attack plastic. Do not allow any liquids to enter the inside of the device.
- Always keep the ventilation slots 5 clear.

Disposal

The packaging is wholly composed of environmentally-friendly materials that can be disposed of at a local recycling centre.

Do not dispose of electrical power tools with the household rubbish!

In accordance with European Directive 2002/96/EC (covering waste electrical and electronic equipment) and its transposition into national legislation, worn out electrical power tools must be collected separately and taken for environmentally compatible recycling.

Contact your local refuse disposal authority for more details of how to dispose of your worn out electrical devices.

Information

Service centre

The service centre for your country is shown in the warranty documentation.

- Have your device repaired only by qualified specialist personnel using original manufacturer parts only. This will ensure that your device remains safe to use.
- If the plug or mains lead needs to be replaced, always have the replacement carried out by the manufacturer or its service centre. This will ensure that your device remains safe to use.

Declaration of Conformity / Manufacturer CE

We, Kompernaß GmbH, Burgstr. 21,
44867 Bochum, Germany, declare that this product complies with the following EU directives:

Machinery Directive (98 / 37 / EG)

EU Low Voltage Directive (2006 / 95 / EC)

Electromagnetic Compatibility (2004 / 108 / EC)

Type / Device description:
Delta sander PDS 260

Bochum, 31.01.2008

Hans Kompernaß
- Managing Director -

We reserve the right to make technical modifications in the course of product development.